

FIG. I PRIOR ART

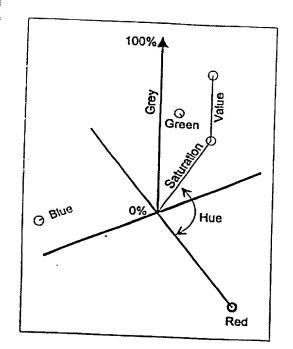


FIG. 2 PRIOR ART

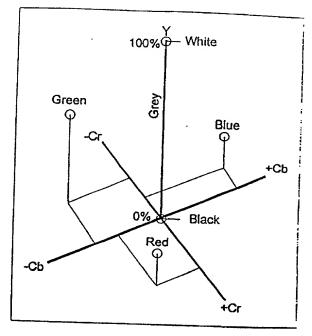


FIG. 3 PRIOR ART

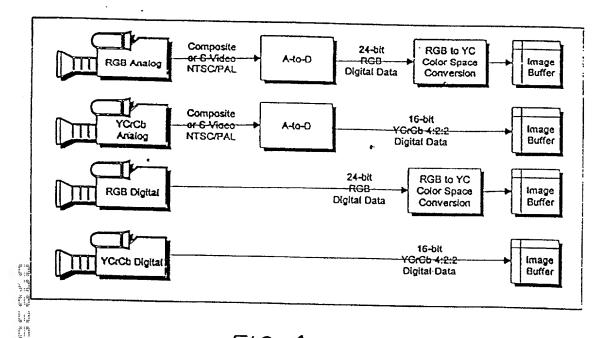


FIG. 4

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THE REAL PROPERTY.

A Paris

if my

4.2

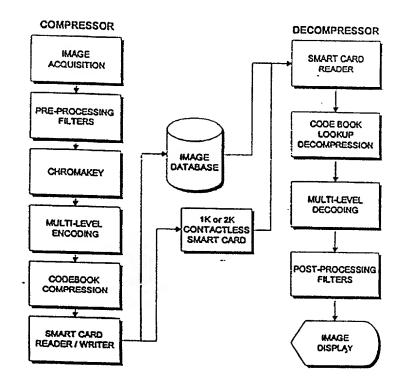


FIG. 5

FIG. 6

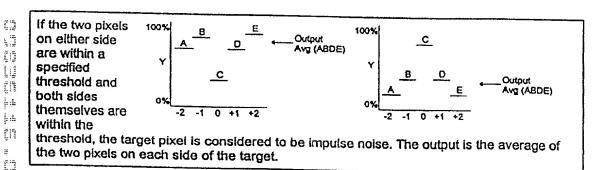


FIG. 7

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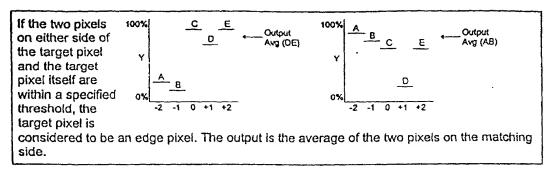


FIG. 8

100 If the five pixels 100% 100% are all increasing or decreasing (or are within a small threshold Output Avg (AB) to account for ginging or preemphasis typically found in analog video signals), the target is considered to be in the midst of a blurred edge. The output is the average of the two pixels on whichever side is closest to the target pixel. # .E

FIG. 9

If the five pixels in the window do not fit into any of the 100% prior cases, the target is considered to be in the midst of a busy area. The target pixel is output unchanged. Output

FIG. 10

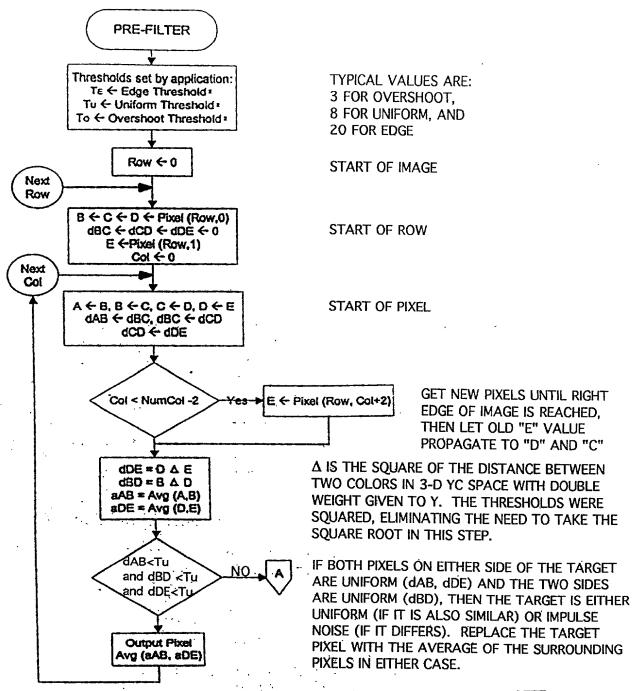


FIG. 11A

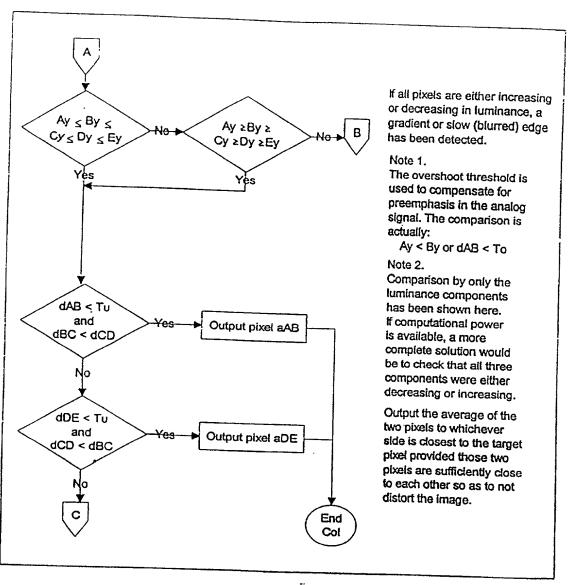


FIG. 11B

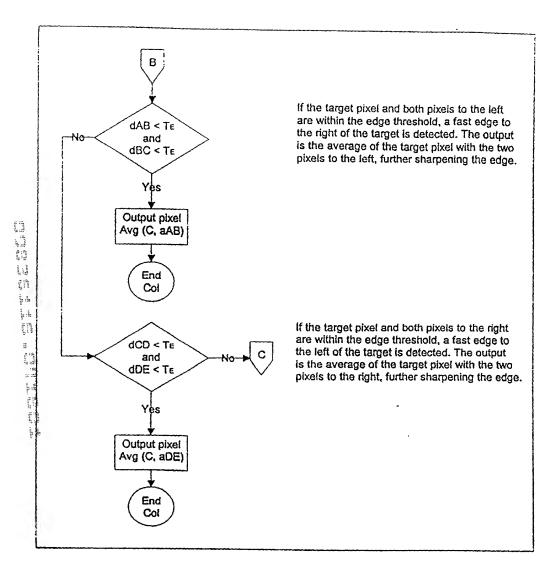


FIG. IIC

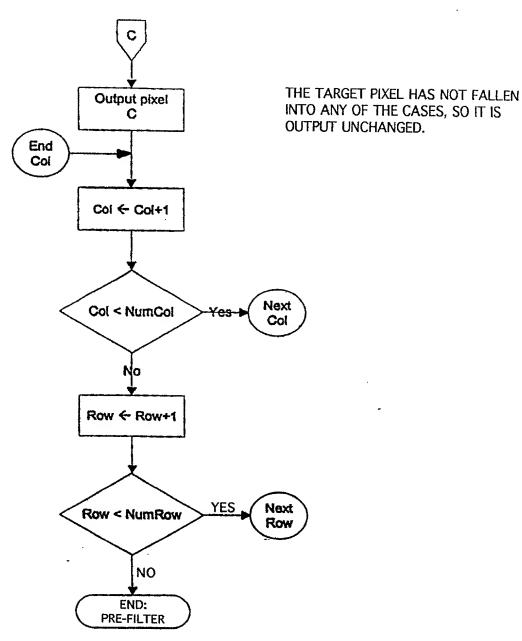


FIG. 11D

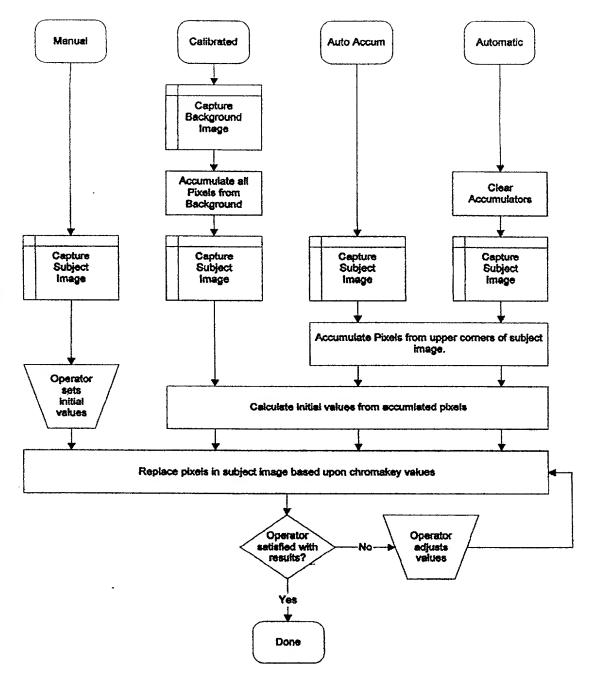


FIG. 11E

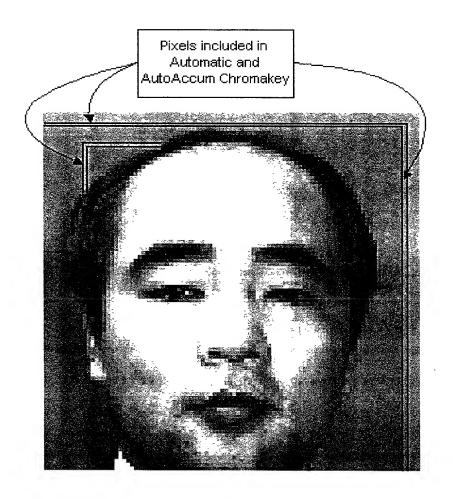
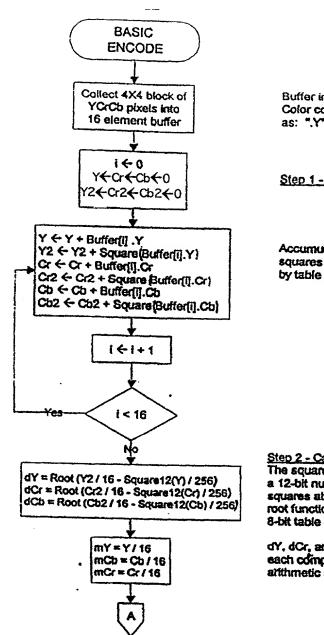


FIG. 11F



Buffer index will range from 0 to 15. Color components will be referred to as: ".Y", ".Cr", and ".Cb"

Step 1 - Collect first and second moments

Accumulate separate component values as squares for each pixel. Squares are calculated by table lookup rather than by multiplication.

Step 2 - Calculate mean and standard deviation. The square12 function calculates the square of a 12-bit number using the same 6-bit table of squares above and little extra arithmetic. The root function finds roots by binary search of the 8-bit table of squares.

dy, dCr, and dCb are the standard deviations for each component and my, mCr, and mCb are the arithmetic means.

FIG. 12A

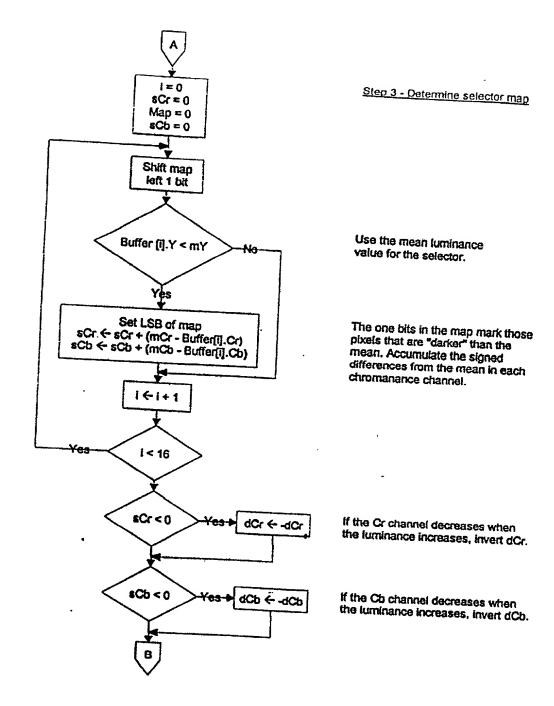


FIG. 12B

FIG. 12C -

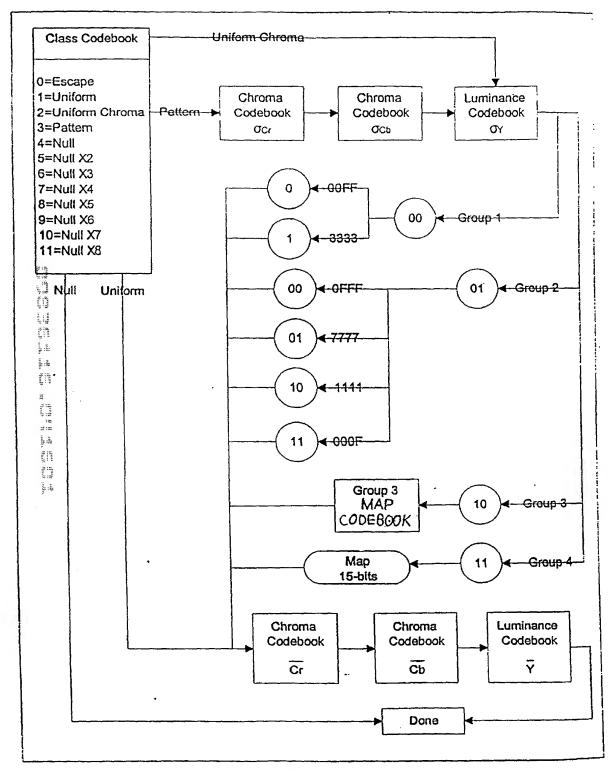


FIG. 13

COMPRESS BLOCK

COLLECT DATA FOR THIS BLOCK:

TYUNI <- UNIFORM LUMINANCE THRESHOLD

BYPAT - PATTERN LUMINANCE BITS

BYUNI - UNIFORM LUMINANCE BITS

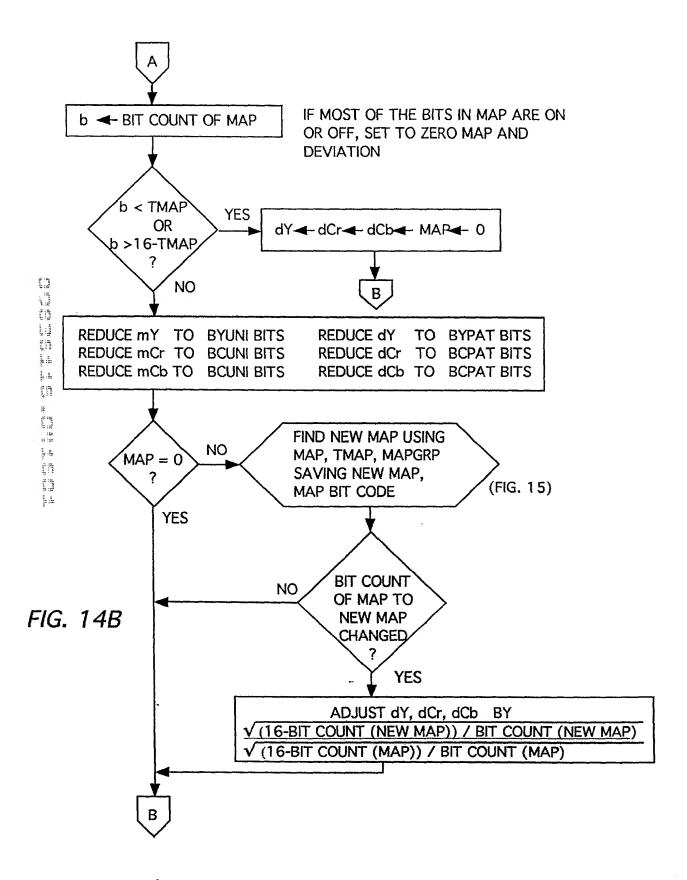
dY ← BLOCK STD. DEV. LUMINANCE

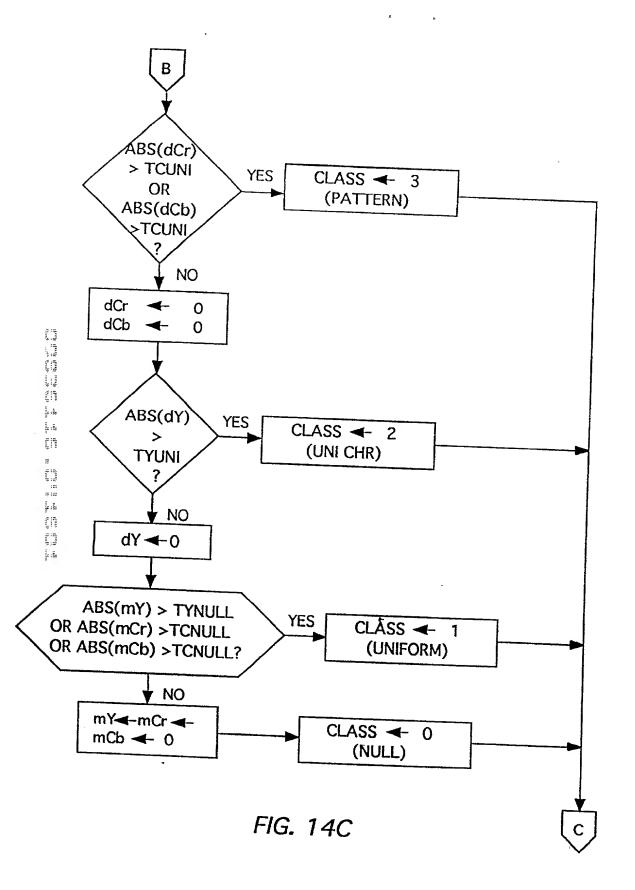
MAP →BLOCK SELECTION MAP

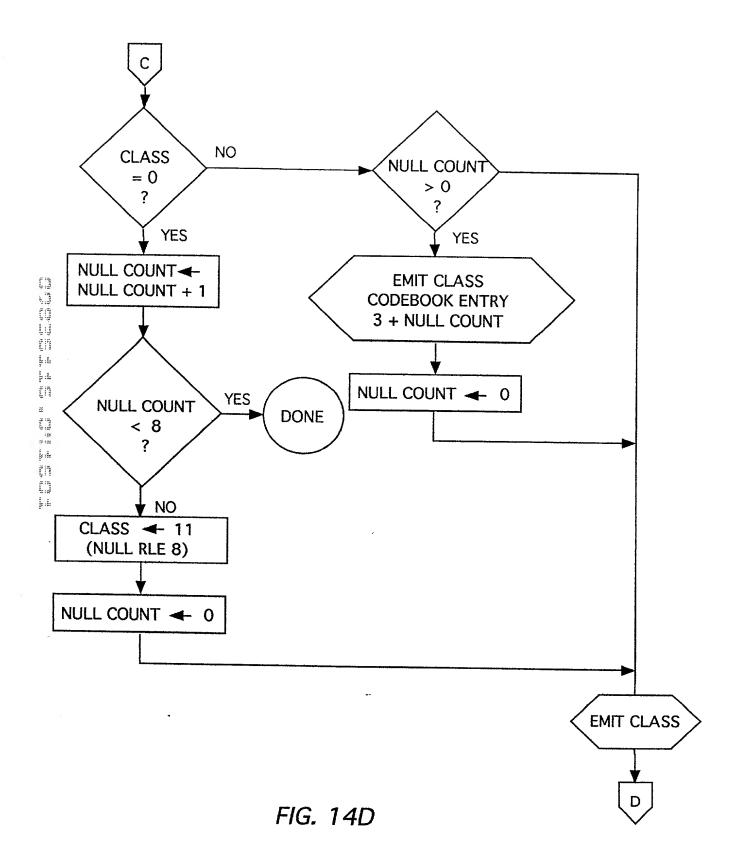
INITIALIZE VALUES:



FIG. 14A







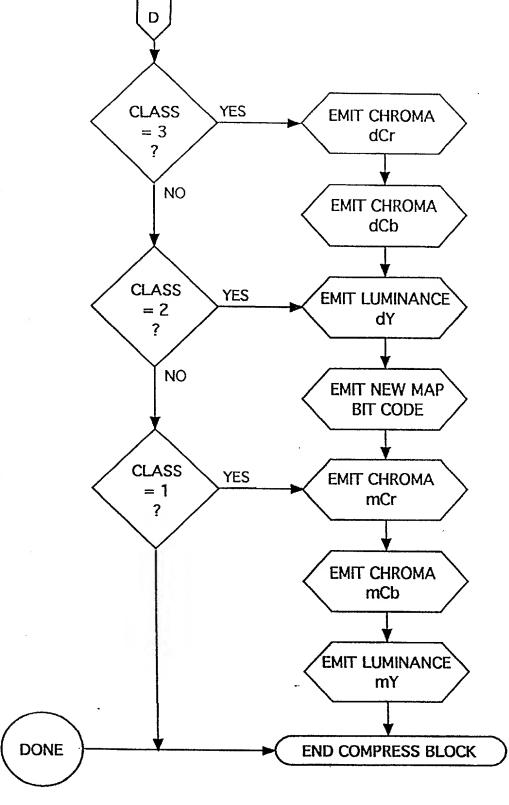
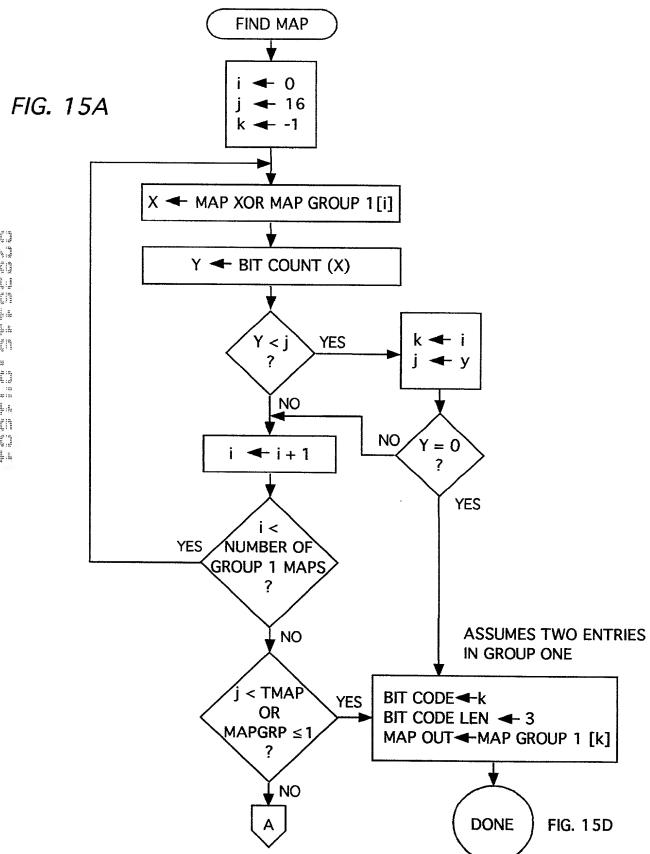
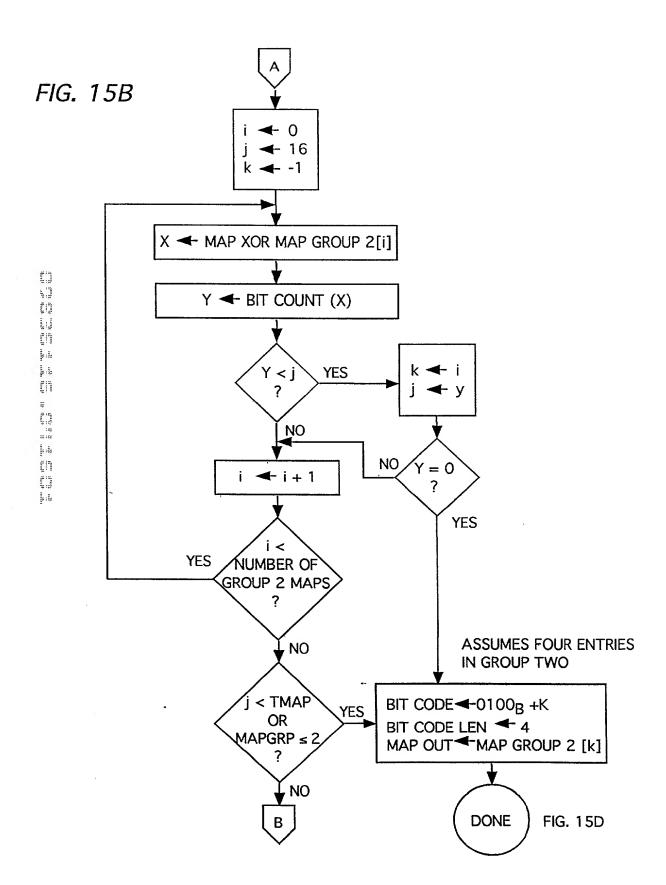


FIG. 14E





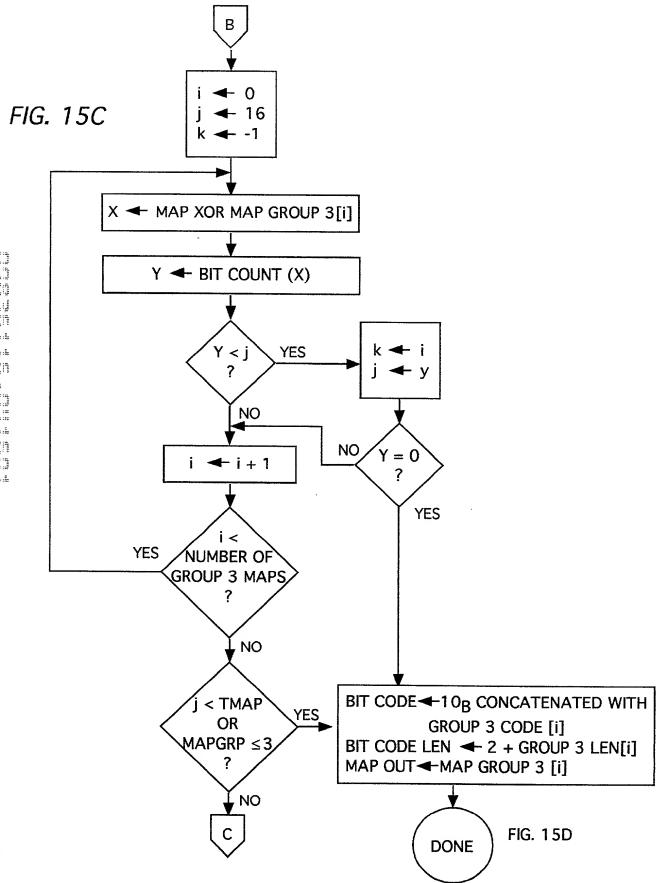


FIG. 16A

	D	D	D	D	D	D	
	D	С	В	В	С	D	
	D	В	Α	Α	В	D	
	D	В	Α	Α	В	D	
-	D	С	В	В	С	D	
	D	D	D	D	D	D	

State of the state				
	CIRCLE	OVAL	BELL	
mile facility of the facility	60 52 44 32 33 45 53 61 54 34 24 16 17 25 35 55 46 26 12 4 5 13 27 47 36 18 6 0 1 7 19 37 38 20 8 2 3 9 21 39 48 28 14 10 11 15 29 49 56 40 30 22 23 31 41 57 62 58 50 42 43 51 59 63	60 52 40 32 33 41 53 61 56 36 24 16 17 25 37 57 48 28 12 4 5 13 29 49 42 20 8 0 1 9 21 43 45 50 30 14 6 7 15 31 51 58 38 26 18 19 27 39 59 62 54 46 34 35 47 55 63	62 58 54 44 45 55 59 63 56 46 34 26 27 35 47 57 50 30 16 10 11 17 31 51 40 24 12 4 5 13 25 41 38 18 6 0 1 7 19 39 42 22 8 2 3 9 23 43 52 32 20 14 15 21 33 53 60 48 36 28 29 37 49 61	
TRUNCATED	X X 44 32 33 45 X X X 34 24 16 17 25 35 X 46 26 12 4 5 13 27 47 36 18 6 0 1 7 19 37 38 20 8 2 3 9 21 39 48 28 14 10 11 15 29 49 X 40 30 22 23 81 41 X X X 50 42 43 51 X X	X X 40 32 33 41 X X X 36 24 16 17 25 37 X 48 28 12 4 5 13 29 49 42 20 8 0 1 9 21 43 44 22 10 2 3 11 23 45 50 30 14 6 7 5 31 51 X 38 26 18 19 27 39 X X X 46 34 35 47 X X	X X 50 44 45 51 X X X 46 34 26 27 35 47 X 48 30 16 10 11 17 31 49 40 24 12 4 5 13 25 41 38 8 6 0 1 7 19 39 42 22 8 2 3 9 23 43 X 32 20 14 15 21 33 X X X 36 28 29 37 X X	
CONTROL POINTS	1/2	1/2 — 1/2 — 1/2 — 1/4 — 2 — 3 — 1/4 — 3	1/3 1/3 1/3 1/3 2 1/3 1/3	

FIG. 16B

FIG. 17

DONE

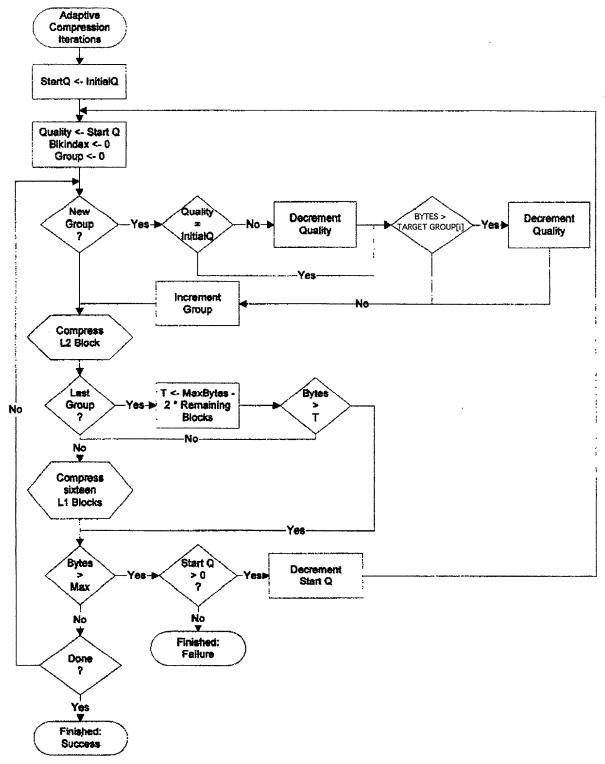
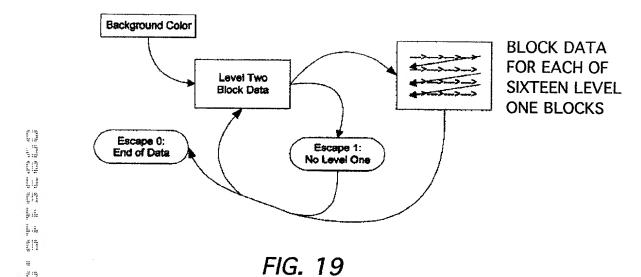


FIG. 18



	Input						
A	В	С	D	E			
F	G	Н	1	J			
K	L	М	N	0			
P	Q	R	\$	T			
IJ	V	W	X	Y			

Half the Half

	Light Edge Filter				
A	3B/4 C/4	3C/4 B/4	D	E	
3F/4 K/4	9G/16 3H/16 3L/16 M/16	9H/16 3G/16 3M/18 L/16	31/4 14/4	3.1/4 O/4	
3K/4 G/4	9L/16 3M/16 3G/18 H/16	9M/16 3L/16 3H/18 G/16	3N/4 1/4	30/4 J/4	
P	30/4 R/4	3R/4 Q/4	S	T	
U	3V/4 W/4	3VV/4 V/4	X	Y	

M	Medium Edge Filter				
A	26/3 C/3	2C/3 B/3	D	E	
2F/3 K/3	4G/9 2H/9 2L/9 M/9	4H/9 2G/9 2M/9 L/9	29/3 N/3	21/3 O/3	
2K/3 F/3	4U9 2M/9	4M/9 2L/9	2N/3 1/3	20/3 .5/3	
P	2G/9 H/9 2Q/3 R/3	2H/9 G/9 2R/3 Q/3	S	T	
U	2V/3 W/3	2W/3 V/3	X	Υ.	

1 1 P-1 P-11					
Heavy Edge Filter					
A	8/2 C/2	C/2 E/2	D	E	
F/2 K/2	H/4 G/4 M/4 L/4	H/4 G/4 M/4 L/4	W2 N/2	J/2 U/2	
K/2 F/2	H/4 G/4 M/4 L/4	H44 G4 M4 L4	N/2 1/2	O/2 J/2	
P	Q/2 R/2	R/2 G/2	s	T	
U	V/2 W/2	WW V/2	X	Y	

FIG. 20A

FIG. 20B

FIG. 20C

FIG. 20D

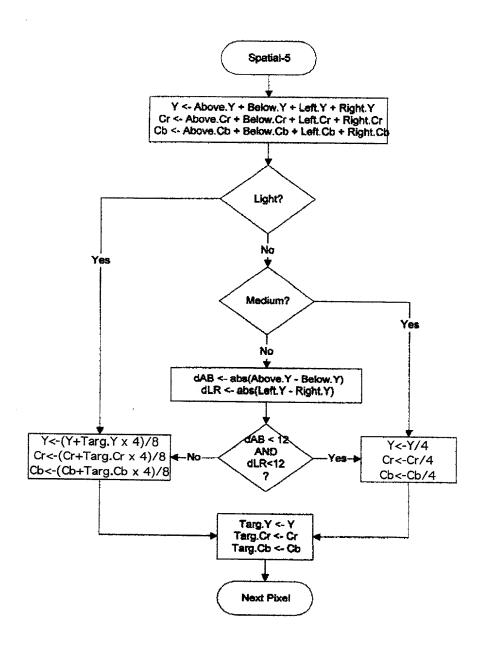


FIG. 21

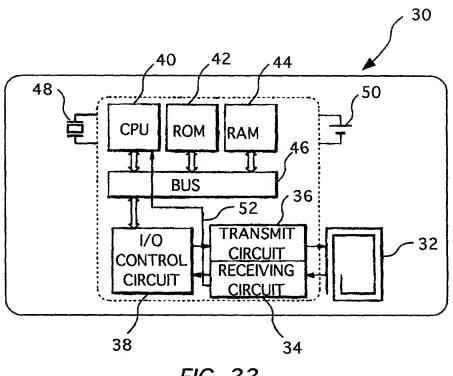


FIG. 22